

SEQUENCE LISTING

<110> Lobel, Leslie
Lustbader, Joyce

<120> EXPRESSION OF PROPERLY FOLDED AND SOLUBLE EXTRACELLULAR DOMAIN OF A GONADOTROPIN RECEPTOR

<130> 0575/62259/JPW/SHS

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<170> PatentIn version 3.0

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<212> DNA

<213> HOMO SAPIENS

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<213> Homo Sapiens

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Glu Tyr Gln Gly Lys Leu Thr Val Ala Lys Leu Asn Ile Asp Gln Asn
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Pro Gly Thr Ala Pro Lys Tyr Gly Ile Arg Gly Ile Pro Thr Leu Leu
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Leu Phe Lys Asn Gly Glu Val Ala Ala Thr Lys Val Gly Ala Leu Ser
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Lys Gly Gln Leu Lys Glu Phe Leu Asp Ala Asn Leu Ala Gly Ser Gly
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Ser Gly His Met His His His His His Ser Ser Gly Leu Val Pro
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Ala Asp Ile Gly Ser Glu Phe Arg Ala Leu Arg Glu Ala Leu Cys Pro
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Glu Pro Cys Asn Cys Val Pro Asp Gly Ala Leu Arg Cys Pro Gly Pro
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Thr Ala Gly Leu Thr Arg Leu Ser Leu Ala Tyr Leu Pro Val Lys Val
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Val His Leu Glu Lys Met His Asn Gly Ala Phe Arg Gly Ala Thr Gly
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Pro Lys Thr Leu Asp Ile Ser Ser Thr Lys Leu Gln Ala Leu Pro Ser
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Tyr Gly Leu Glu Ser Ile Gln Arg Leu Ile Ala Thr Ser Ser Tyr Ser
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Leu Lys Lys Leu Pro Ser Arg Glu Thr Phe Val Asn Leu Leu Glu Ala
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Glu Tyr Gln Gly Lys Leu Thr Val Ala Lys Leu Asn Ile Asp Gln Asn
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Pro Gly Thr Ala Pro Lys Tyr Gly Ile Arg Gly Ile Pro Thr Leu Leu
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Leu Phe Lys Asn Gly Glu Val Ala Ala Thr Lys Val Gly Ala Leu Ser
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Lys Gly Gln Leu Lys Glu Phe Leu Asp Ala Asn Leu Ala Gly Ser Gly
 100 105 110

Ser Gly His Met His His His His His Ser Ser Gly Leu Val Pro
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Arg Gly Ser Gly Met Lys Glu Thr Ala Ala Ala Lys Phe Glu Arg Gln
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His Met Asp Ser Pro Asp Leu Gly Thr Asp Asp Asp Asp Lys Ala Met
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Ala Asp Ile Gly Ser Glu Phe Arg Val Phe Leu Cys Gln Glu Ser Lys
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Phe Val Leu Thr Lys Leu Arg Val Ile Gln Lys Gly Ala Phe Ser Gly
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Val Ile Glu Ala Asp Val Phe Ser Asn Leu Pro Lys Leu His Glu Ile
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Arg Ile Glu Lys Ala Asn Asn Leu Leu Tyr Ile Thr Pro Glu Ala Phe
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Gln Asn Leu Pro Asn Leu Gln Tyr Leu Leu Ile Ser Asn Thr Gly Ile
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Lys His Leu Pro Asp Val His Lys Ile His Ser Leu Gln Lys Val Leu
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Leu Asp Ile Gln Asp Asn Ile Asn Ile His Thr Ile Glu Arg Asn Ser
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Phe Val Gly Leu Ser Phe Glu Ser Val Ile Leu Trp Leu Asn Lys Asn
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Gly Ile Gln Glu Ile His Asn Cys Ala Phe Asn Gly Thr Gln Leu Asp
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Ala Val Asn Leu Ser Asp Asn Asn Asn Leu Glu Glu Leu Pro Asn Asp
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Val Phe His Gly Ala Ser Gly Pro Val Ile Leu Asp Ile Ser Arg Thr
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Arg Ile His Ser Leu Pro Ser Tyr Gly Leu Glu Asn Leu Lys Lys Leu
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Arg Ala Arg Ser Thr Tyr Asn Leu Lys Lys Leu Pro Thr Leu Glu Lys
 385 390 395 400

Leu Val Ala Leu Met Glu Ala Ser Leu Thr Tyr Pro Ser His Cys Cys
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Ala Phe Ala Asn Trp Arg Arg Gln Ile Ser Glu Leu His Pro Ile Cys
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Asn Lys Ser Ile Leu Arg Gln Glu Val Asp Tyr Met Thr Gln Ala Arg
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Gly Gln Arg Ser Ser Leu Ala Glu Asp Asn Glu Ser Ser Tyr Ser Arg
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Gly Phe Asp Met Thr Tyr Thr Glu Phe Asp Tyr Asp Leu Cys Asn Glu
 465 470 475 480

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Glu Asp Ile Met Gly Val Asp Lys Leu Ala Ala Ala Leu Glu His His
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Pro Ser Gln Ala Phe Arg Gly Leu Asn Glu Val Ile Lys Ile Glu Ile			
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Ser Gln Ile Asp Ser Leu Glu Arg Ile Glu Ala Asn Ala Phe Asp Asn			
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Leu Leu Asn Leu Ser Glu Ile Leu Ile Gln Asn Thr Lys Asn Leu Arg			
100		105	110
Tyr Ile Glu Pro Gly Ala Phe Ile Asn Leu Pro Arg Leu Lys Tyr Leu			
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Ser Ile Cys Asn Thr Gly Ile Arg Lys Phe Pro Asp Val Thr Lys Val			
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Phe Ser Ser Glu Ser Asn Phe Ile Leu Glu Ile Cys Asp Asn Leu His			
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Ile Thr Thr Ile Pro Gly Asn Ala Phe Gln Gly Met Asn Asn Glu Ser			
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Val Thr Leu Lys Leu Tyr Gly Asn Gly Phe Glu Glu Val Gln Ser His			
180		185	190
Ala Phe Asn Gly Thr Thr Leu Thr Ser Leu Glu Leu Lys Glu Asn Val			
195		200	205
His Leu Glu Lys Met His Asn Gly Ala Phe Arg Gly Ala Thr Gly Pro			
210		215	220
Lys Thr Leu Asp Ile Ser Ser Thr Lys Leu Gln Ala Leu Pro Ser Tyr			
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			240

Gly Leu Glu Ser Ile Gln Arg Leu Ile Ala Thr Ser Ser Tyr Ser Leu
 245 250 255

Lys Lys Leu Pro Ser Arg Glu Thr Phe Val Asn Leu Leu Glu Ala Thr
 260 265 270

Leu Thr Tyr Pro Ser His Cys Cys Ala Phe Arg Asn Leu Pro Thr Lys
 275 280 285

Glu Gln Asn Phe Ser His Ser Ile Ser Glu Asn Phe Ser Lys Gln Cys
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Glu Ser Thr Val Arg Lys Val Asn Asn Lys Thr Leu Tyr Ser Ser Met
 305 310 315 320

Leu Ala Glu Ser Glu Leu Ser Gly Trp Asp Tyr Glu Tyr Gly Phe Cys
 325 330 335

Leu Pro Lys Thr Pro Arg Cys Ala Pro Glu Pro Asp Ala Phe Asn Pro
 340 345 350

Cys Glu Asp Ile Met Gly Tyr Asp Phe Leu Arg Val Leu Ile Trp Leu
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Ile Asn Ile Leu Ala Ile Met Gly Asn Met Thr Val Leu Phe Val Leu
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Leu Thr Ser Arg Tyr Lys Leu Thr Val Pro Arg Phe Leu Met Cys Asn
 385 390 395 400

Leu Ser Phe Ala Asp Phe Cys Met Gly Leu Tyr Leu Leu Ile Ala
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Ser Val Asp Ser Gln Thr Lys Gly Gln Tyr Tyr Asn His Ala Ile Asp
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Trp Gln Thr Gly Ser Gly Cys Ser Thr Ala Gly Phe Phe Thr Val Phe
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Ala Ser Glu Leu Ser Val Tyr Thr Leu Thr Val Ile Thr Leu Glu Arg
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Trp His Thr Ile Thr Tyr Ala Ile His Leu Asp Gln Lys Leu Arg Leu
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Arg His Ala Ile Leu Ile Met Leu Gly Gly Trp Leu Phe Ser Ser Leu
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Ile Ala Met Leu Pro Leu Val Gly Val Ser Asn Tyr Met Lys Val Ser
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Cys Tyr Ile Lys Ile Tyr Phe Ala Val Arg Asn Pro Glu Leu Met Ala
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Val Leu Phe Tyr Pro Ile Asn Ser Cys Ala Asn Pro Phe Leu Tyr Ala
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Ile Phe Thr Lys Thr Phe Gln Arg Asp Phe Phe Leu Leu Leu Ser Lys
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<213> Homo Sapiens

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<210> 8

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50						55					60				
Ala	Phe	Ser	Gly	Phe	Gly	Asp	Leu	Glu	Lys	Ile	Glu	Ile	Ser	Gln	Asn
65						70			75					80	
Asp	Val	Leu	Glu	Val	Ile	Glu	Ala	Asp	Val	Phe	Ser	Asn	Leu	Pro	Lys
					85				90				95		
Leu	His	Glu	Ile	Arg	Ile	Glu	Lys	Ala	Asn	Asn	Leu	Leu	Tyr	Ile	Thr
					100				105				110		
Pro	Glu	Ala	Phe	Gln	Asn	Leu	Pro	Asn	Leu	Gln	Tyr	Leu	Leu	Ile	Ser
					115				120				125		
Asn	Thr	Gly	Ile	Lys	His	Leu	Pro	Asp	Val	His	Lys	Ile	His	Ser	Leu
					130				135			140			
Gln	Lys	Val	Leu	Leu	Asp	Ile	Gln	Asp	Asn	Ile	Asn	Ile	His	Thr	Ile
					145				150			155		160	
Glu	Arg	Asn	Ser	Phe	Val	Gly	Leu	Ser	Phe	Glu	Ser	Val	Ile	Leu	Trp
					165				170				175		
Leu	Asn	Lys	Asn	Gly	Ile	Gln	Glu	Ile	His	Asn	Cys	Ala	Phe	Asn	Gly
					180				185				190		
Thr	Gln	Leu	Asp	Ala	Val	Asn	Leu	Ser	Asp	Asn	Asn	Leu	Glu	Glu	
					195				200				205		
Leu	Pro	Asn	Asp	Val	Phe	His	Gly	Ala	Ser	Gly	Pro	Val	Ile	Leu	Asp
					210				215				220		
Ile	Ser	Arg	Thr	Arg	Ile	His	Ser	Leu	Pro	Ser	Tyr	Gly	Leu	Glu	Asn
					225				230			235		240	
Leu	Lys	Lys	Leu	Arg	Ala	Arg	Ser	Thr	Tyr	Asn	Leu	Lys	Lys	Leu	Pro
					245				250				255		
Thr	Leu	Glu	Lys	Leu	Val	Ala	Leu	Met	Glu	Ala	Ser	Leu	Thr	Tyr	Pro
					260				265				270		

Ser His Cys Cys Ala Phe Ala Asn Trp Arg Arg Gln Ile Ser Glu Leu
 275 280 285

His Pro Ile Cys Asn Lys Ser Ile Leu Arg Gln Glu Val Asp Tyr Met
 290 295 300

Thr Gln Ala Arg Gly Gln Arg Ser Ser Leu Ala Glu Asp Asn Glu Ser
 305 310 315 320

Ser Tyr Ser Arg Gly Phe Asp Met Thr Tyr Thr Glu Phe Asp Tyr Asp
 325 330 335

Leu Cys Asn Glu Val Val Asp Val Thr Cys Ser Pro Lys Pro Asp Ala
 340 345 350

Phe Asn Pro Cys Glu Asp Ile Met Gly Tyr Asn Ile Leu Arg Val Leu
 355 360 365

Ile Trp Phe Ile Ser Ile Leu Ala Ile Thr Gly Asn Ile Ile Val Leu
 370 375 380

Val Ile Leu Thr Thr Ser Gln Tyr Lys Leu Thr Val Pro Arg Phe Leu
 385 390 395 400

Met Cys Asn Leu Ala Phe Ala Asp Leu Cys Ile Gly Ile Tyr Leu Leu
 405 410 415

Leu Ile Ala Ser Val Asp Ile His Thr Lys Ser Gln Tyr His Asn Tyr
 420 425 430

Ala Ile Asp Trp Gln Thr Gly Ala Gly Cys Asp Ala Ala Gly Phe Phe
 435 440 445

Thr Val Phe Ala Ser Glu Leu Ser Val Tyr Thr Leu Thr Ala Ile Thr
 450 455 460

Leu Glu Arg Trp His Thr Ile Thr His Ala Met Gln Leu Asp Cys Lys
 465 470 475 480

Val Gln Leu Arg His Ala Ala Ser Val Met Val Met Gly Trp Ile Phe
 485 490 495

Ala Phe Ala Ala Ala Leu Phe Pro Ile Phe Gly Ile Ser Ser Tyr Met

500

505

510

Lys Val Ser Ile Cys Leu Pro Met Asp Ile Asp Ser Pro Leu Ser Gln
515 520 525

Leu Tyr Val Met Ser Leu Leu Val Leu Asn Val Leu Ala Phe Val Val
530 535 540

Ile Cys Gly Cys Tyr Ile His Ile Tyr Leu Thr Val Arg Asn Pro Asn
545 550 555 560

Ile Val Ser Ser Ser Asp Thr Arg Ile Ala Lys Arg Met Ala Met
565 570 575

Leu Ile Phe Thr Asp Phe Leu Cys Met Ala Pro Ile Ser Phe Phe Ala
580 585 590

Ile Ser Ala Ser Leu Lys Val Pro Leu Ile Thr Val Ser Lys Ala Lys
595 600 605

Ile Leu Leu Val Leu Phe His Pro Ile Asn Ser Cys Ala Asn Pro Phe
610 615 620

Leu Tyr Ala Ile Phe Thr Lys Asn Phe Arg Arg Asp Phe Phe Ile Leu
625 630 635 640

Leu Ser Lys Cys Gly Cys Tyr Glu Met Gln Ala Gln Ile Tyr Arg Thr
645 650 655

Glu Thr Ser Ser Thr Val His Asn Thr His Pro Arg Asn Gly His Cys
660 665 670

Ser Ser Ala Pro Arg Val Thr Ser Gly Ser Thr Tyr Ile Leu Val Pro
675 680 685

Leu Ser His Leu Ala Gln Asn
690 695